

THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of)
Günter Halmschlager, et al.) Group:
Serial No.:)
Filed: February 27, 2002)
PCT No.: PCT/EP01/07785)
Int. Filing Date: July 6, 2001) Examiner:
Priority Date: July 7, 2000)
Title: METHOD AND DEVICE FOR ONE- OR)
TWO-SIDED APPLICATION OF)
A MATERIAL WEB)

PRELIMINARY AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

Please enter the following Amendment to the application prior to calculating the filing fee.

Attached hereto as "ATTACHMENT A" is a marked-up copy showing the changes made to the above-identified patent application by the present Amendment.

IN THE SPECIFICATION

Please replace the current specification with the substitute specification attached hereto.

IN THE ABSTRACT

Please delete the abstract in its entirety and replace therefor the abstract attached hereto.

IN THE CLAIMS

Please cancel claims 1-19.

Please add the following new claims 20-39:

20. (New) A method of application of liquid through viscid mediums onto the surface of a pre-dried material web, comprising the steps of:

applying a viscid medium coating to at least one side of the material web;

routing the material web through a press nip; and

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5 supporting the material web, substantially without free draw, after said routing step.

21. (New) The method of claim 20, wherein said supporting step includes supporting the material web by at least one flexible continuous belt substantially until the material web reaches a dryer cylinder of a downstream dryer group.

22. (New) The method of claim 20, wherein said applying step includes the sub-steps of:
applying the viscid medium to an outside surface of a flexible continuous belt; and
transferring the viscid medium from said outside surface of said flexible continuous belt to an underneath side of the material web.

23. (New) The method of claim 22, wherein said flexible continuous belt is configured to provide support to the material web.

24. (New) The method of claim 20, wherein said applying step includes the sub-steps of:
applying the viscid medium to one of an application roll and an outside surface of a flexible continuous belt; and
transferring the viscid medium from one of said application roll and said outside surface of
5 said flexible continuous belt to a top side of the material web.

25. (New) The method of claim 24, wherein said flexible continuous belt is configured to provide support to the material web.

26. (New) The method of claim 20, wherein said applying step includes the sub-steps of:
applying the viscid medium incrementally to a plurality of flexible continuous belts; and
supporting the material web by at least one of said plurality of flexible continuous belts.

27. (New) The method of claim 20, further comprising the step of conveying the material web through a penetration segment of greater than approximately 100 mm, prior to said routing step.

28. (New) The method of claim 20, wherein the material web has a mass per unit area not exceeding 90 g/m^2 .

29. (New) The method of claim 20, wherein the material web has a dry-content of between approximately 85% and approximately 95%, prior to said applying step.

30. (New) A coating device for a material web, comprising:

at least one application device configured to apply a viscid medium to the material web;

a first support roll;

a second support roll located apart from said first support roll;

5 a continuous belt supported by said first support roll and said second support roll, said continuous belt configured to support the material web substantially without free draw; and

a press shoe located proximate to said continuous belt forming a press nip therebetween, said press nip located downstream from said at least one application device.

31. (New) The device of claim 30, wherein said at least one application device comprises a first application device disposed proximate to an outside surface of said continuous belt where said first support roll is in contact with said continuous belt, said first application device configured to deliver a viscid medium to said continuous belt for subsequent transfer to a side of
5 the material web.

32. (New) The device of claim 31, further comprising:

a plurality of guide rollers;

an application roll;

an other continuous belt disposed around said application roll and said plurality of guide
5 rollers, said other continuous belt configured as a press belt;

a second application device disposed proximate to an outside surface of said other continuous belt where said application roll is in contact with said other continuous belt, said
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second application device configured to deliver a viscid medium to said other continuous belt for subsequent transfer to an other side of the material web.

33. (New) The device of claim 32, further comprising a dryer section which includes at least one dryer cylinder; and

wherein at least one of said continuous belt and said other continuous belt is configured to support the material web substantially to said at least one dryer cylinder.

34. (New) The device of claim 33, further comprising a plurality of flexible continuous belts configured for incremental application of said viscid medium to a side of the material web, at least one of said plurality of flexible continuous belts being configured to support the material web through to said at least one dryer cylinder.

35. (New) The device of claim 30, further comprising a penetration segment having a length of greater than approximately 100 mm, said penetration segment disposed immediately upstream of said press nip.

36. (New) The device of claim 33, further comprising at least one of a suction roll, a suction box and a blow box located downstream of said press nip, each said suction roll, said suction box and said blow box being configured to transfer the material web to said at least one dryer cylinder.

37. (New) The device of claim 32, where in said continuous belt and said other continuous belt are equipped with a drive.

38. (New) The device of claim 32, wherein at least one of said plurality of guide rolls is adjustable.

39. (New) The device of claim 30, wherein said device is configured to produce corrugated board base paper.

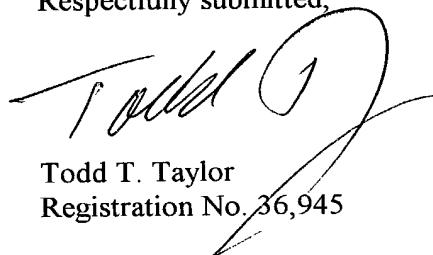
REMARKS

In compliance with MPEP § 608.01(q), Applicants submit that no new matter has been added in the substitute specification attached hereto. Applicants have included a marked-up copy of the original specification, the changes indicated therein corresponding to the changes implemented in the substitute specification.

In the event Applicants have overlooked the need for an extension of time, an additional extension of time, payment of fee, or additional payment of fee, Applicants hereby conditionally petition therefor and authorize that any charges be made to Deposit Account No. 20-0095, TAYLOR & AUST, P.C.

Should any question concerning any of the foregoing arise, the Examiner is invited to telephone the undersigned at (260) 897-3400.

Respectfully submitted,



Todd T. Taylor
Registration No. 36,945

Attorney for Applicant

TTT6/tj

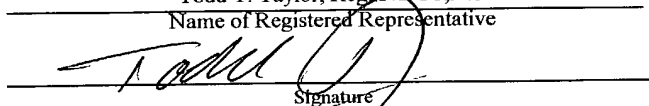
TAYLOR & AUST, P.C.
142 S. Main Street
P.O. Box 560
Avilla, IN 46710
Telephone: 260-897-3400
Facsimile: 260-897-9300

Enc.: Return postcard

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I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:
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Todd T. Taylor, Reg. No. 36,945
Name of Registered Representative


Signature

February 27, 2002
Date

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ATTACHMENT A:
MARKED-UP COPY SHOWING AMENDMENTS

IN THE CLAIMS

Please cancel claims 1-19.

Please add the following new claims 20-39:

20. (New) A method of application of liquid through viscid mediums onto the surface of a pre-dried material web, comprising the steps of:

applying a viscid medium coating to at least one side of the material web;

routing the material web through a press nip; and

supporting the material web, substantially without free draw, after said routing step.

21. (New) The method of claim 20, wherein said supporting step includes supporting the material web by at least one flexible continuous belt substantially until the material web reaches a dryer cylinder of a downstream dryer group.

22. (New) The method of claim 20, wherein said applying step includes the sub-steps of:
applying the viscid medium to an outside surface of a flexible continuous belt; and
transferring the viscid medium from said outside surface of said flexible continuous belt to an underneath side of the material web.

23. (New) The method of claim 22, wherein said flexible continuous belt is configured to provide support to the material web.

24. (New) The method of claim 20, wherein said applying step includes the sub-steps of:
applying the viscid medium to one of an application roll and an outside surface of a

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flexible continuous belt; and

transferring the viscid medium from one of said application roll and said outside surface of said flexible continuous belt to a top side of the material web.

25. (New) The method of claim 24, wherein said flexible continuous belt is configured to provide support to the material web.

26. (New) The method of claim 20, wherein said applying step includes the sub-steps of:
applying the viscid medium incrementally to a plurality of flexible continuous belts; and
supporting the material web by at least one of said plurality of flexible continuous belts.

27. (New) The method of claim 20, further comprising the step of conveying the material web through a penetration segment of greater than approximately 100 mm, prior to said routing step.

28. (New) The method of claim 20, wherein the material web has a mass per unit area not exceeding 90 g/m².

29. (New) The method of claim 20, wherein the material web has a dry-content of between approximately 85% and approximately 95%, prior to said applying step.

30. (New) A coating device for a material web, comprising:
at least one application device configured to apply a viscid medium to the material web;
a first support roll;
a second support roll located apart from said first support roll;
a continuous belt supported by said first support roll and said second support roll, said continuous belt configured to support the material web substantially without free draw; and
a press shoe located proximate to said continuous belt forming a press nip therebetween,

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said press nip located downstream from said at least one application device.

31. (New) The device of claim 30, wherein said at least one application device comprises a first application device disposed proximate to an outside surface of said continuous belt where said first support roll is in contact with said continuous belt, said first application device configured to deliver a viscid medium to said continuous belt for subsequent transfer to a side of the material web.

32. (New) The device of claim 31, further comprising:

a plurality of guide rollers;

an application roll;

an other continuous belt disposed around said application roll and said plurality of guide rollers, said other continuous belt configured as a press belt;

a second application device disposed proximate to an outside surface of said other continuous belt where said application roll is in contact with said other continuous belt, said second application device configured to deliver a viscid medium to said other continuous belt for subsequent transfer to an other side of the material web.

33. (New) The device of claim 32, further comprising a dryer section which includes at least one dryer cylinder; and

wherein at least one of said continuous belt and said other continuous belt is configured to support the material web substantially to said at least one dryer cylinder.

34. (New) The device of claim 33, further comprising a plurality of flexible continuous belts configured for incremental application of said viscid medium to a side of the material web, at least one of said plurality of flexible continuous belts being configured to support the material web

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through to said at least one dryer cylinder.

35. (New) The device of claim 30, further comprising a penetration segment having a length of greater than approximately 100 mm, said penetration segment disposed immediately upstream of said press nip.

36. (New) The device of claim 33, further comprising at least one of a suction roll, a suction box and a blow box located downstream of said press nip, each said suction roll, said suction box and said blow box being configured to transfer the material web to said at least one dryer cylinder.

37. (New) The device of claim 32, where in said continuous belt and said other continuous belt are equipped with a drive.

38. (New) The device of claim 32, wherein at least one of said plurality of guide rolls is adjustable.

39. (New) The device of claim 30, wherein said device is configured to produce corrugated board base paper.